PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of	f Transmittal of International Search Report
D356 PAT 1156 WO	ACTION (Form PCT/ISA/2	20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/IB 03/06059	17/12/2003	18/12/2002
Applicant		
DIEAU S.A.		
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Auth ansmitted to the International Bureau.	ority and is transmitted to the applicant
This International Search Report consists	of a total of 8 sheets	
	a copy of each prior art document cited in this	report.
1 Dais of the world		
Basis of the report With regard to the language, the	international search was carried out on the bas	is of the international application in the
language in which it was filed, unli	ess otherwise indicated under this item.	is of the international application in the
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	e international application furnished to this
 b. With regard to any nucleotide an was carried out on the basis of the 	d/or amino acid sequence disclosed in the int	ernational application, the international search
	nal application in written form.	
filed together with the inte	rnational application in computer readable form	ı.
furnished subsequently to	this Authority in written form.	
	this Authority in computer readble form.	
international application as		
the statement that the info furnished	rmation recorded in computer readable form is	identical to the written sequence listing has been
2. Certain claims were four	nd unsearchable (See Box I).	
3. Unity of invention is lack	king (see Box II).	
With regard to the title,		
X the text is approved as sul	bmitted by the applicant.	
the text has been establish	ned by this Authority to read as follows:	
5. With regard to the abstract,		
the text is approved as sul	omitted by the applicant.	
the text has been establish within one month from the	ned, according to Rule 38.2(b), by this Authority date of mailing of this international search repo	y as it appears in Box III. The applicant may, ort, submit comments to this Authority.
6. The figure of the drawings to be publi	shed with the abstract is Figure No.	1
X as suggested by the applic	cant.	None of the figures.
because the applicant faile	ed to suggest a figure.	
because this figure better	characterizes the invention.	

International application No.

INTERNATIONAL SEARCH REPORT

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Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The present invention relates to a fluid cooling system (1), for use in dispensing or distributing a chilled or cooled fluid, comprising a primary heat exchanger system (2), a secondary heat exchanger system (3), a first conduit (9) through which fluid to be cooled or chilled is circulated, and a heat transfer agent (8) for transferring cooling energy to the fluid to be chilled circulating in the first conduit (9), wherein the primary and secondary heat exchanger systems (2,3) are arranged at least partially one inside of another. The invention also relates to cooled fluid dispensers incorporating the fluid cooling system and a methods for sterilization thereof.

International application No. PCT/IB 03/06059

INTERNATIONAL SEARCH REPORT

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

International Application No PCT/IB 03/06059

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F25D31/00 B67D B67D1/08 A61L2/18 A61L2/04 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) B67D IPC 7 F25D A61L Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. χ DE 646 207 C (ROBERT BOSCH AKT GES) 1 - 1512 June 1937 (1937-06-12) page 2, line 109 -page 4, line 114; figures 1-6 χ US 1 811 215 A (SMITH ADEN E) 1-4,4223 June 1931 (1931-06-23) page 1, line 68 -page 3, line 24; figures χ DE 17 51 583 A (DEPPENWIESE GERHARD) 1 - 429 April 1971 (1971-04-29) page 4, paragraph 3 -page 5, last paragraph; figure -/--Further documents are listed in the continuation of box C. χ Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. other means document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 12 May 2004 21/05/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

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Boets, A

International Application No PCT/IB 03/06059

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	EP 0 191 436 A (SIPP SPA) 20 August 1986 (1986-08-20) page 6, paragraph 2 -page 8, last	1,2,7,8, 21,22 12,13,42
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Х	DE 684 559 C (BOSCH GMBH ROBERT) 30 November 1939 (1939-11-30)	1,2,21, 42
Α	page 2, line 64 -page 3, line 80; figure	11,27
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Α	US 2 342 299 A (PEET GERALD D) 22 February 1944 (1944-02-22) page 1, right-hand column, line 32 -page 4, left-hand column, line 32; figures 1-10	1,23-26
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X	US 2 093 839 A (KILLEN JAMES R) 21 September 1937 (1937-09-21)	46,48
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A	DE 199 22 084 A (MESSER GRIESHEIM GMBH) 30 November 2000 (2000-11-30) column 1, line 44 -column 8, line 34; figure 1	46,47, 50,51,53
	-/	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-45

Fluid cooling system having a particular heat transfer disposition and fluid dispenser incorporating such a fluid cooling system

2. Claims: 46-54

Method of sterilization

International Application No
PCT/IB 03/06059

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Ą	US 2 988 899 A (GEORGE HERON ANDREW) 20 June 1961 (1961-06-20) column 2, line 28 -column 4, line 13; figures 1-3	51
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Information on patent family members

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